

Figure 1

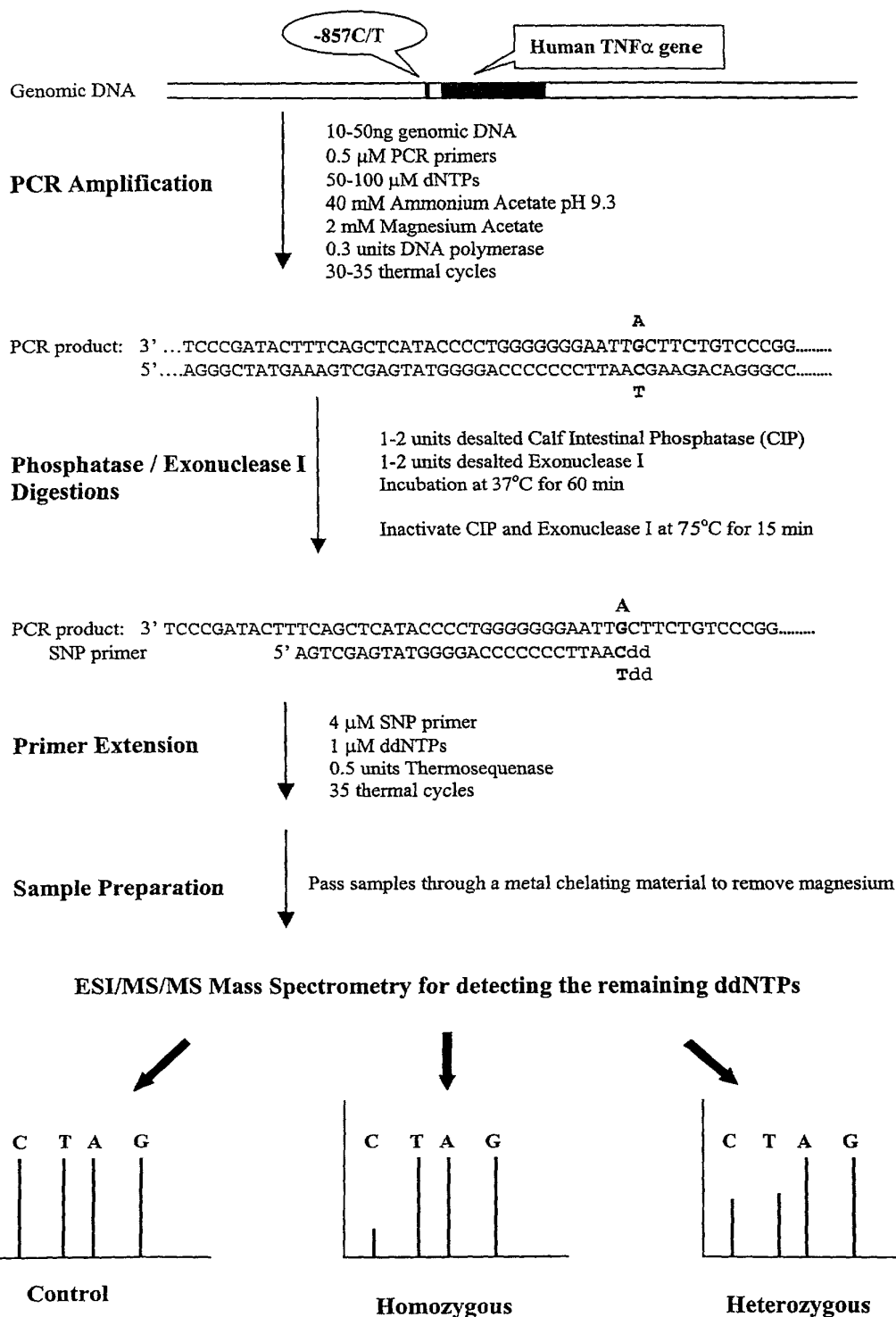


Figure 2

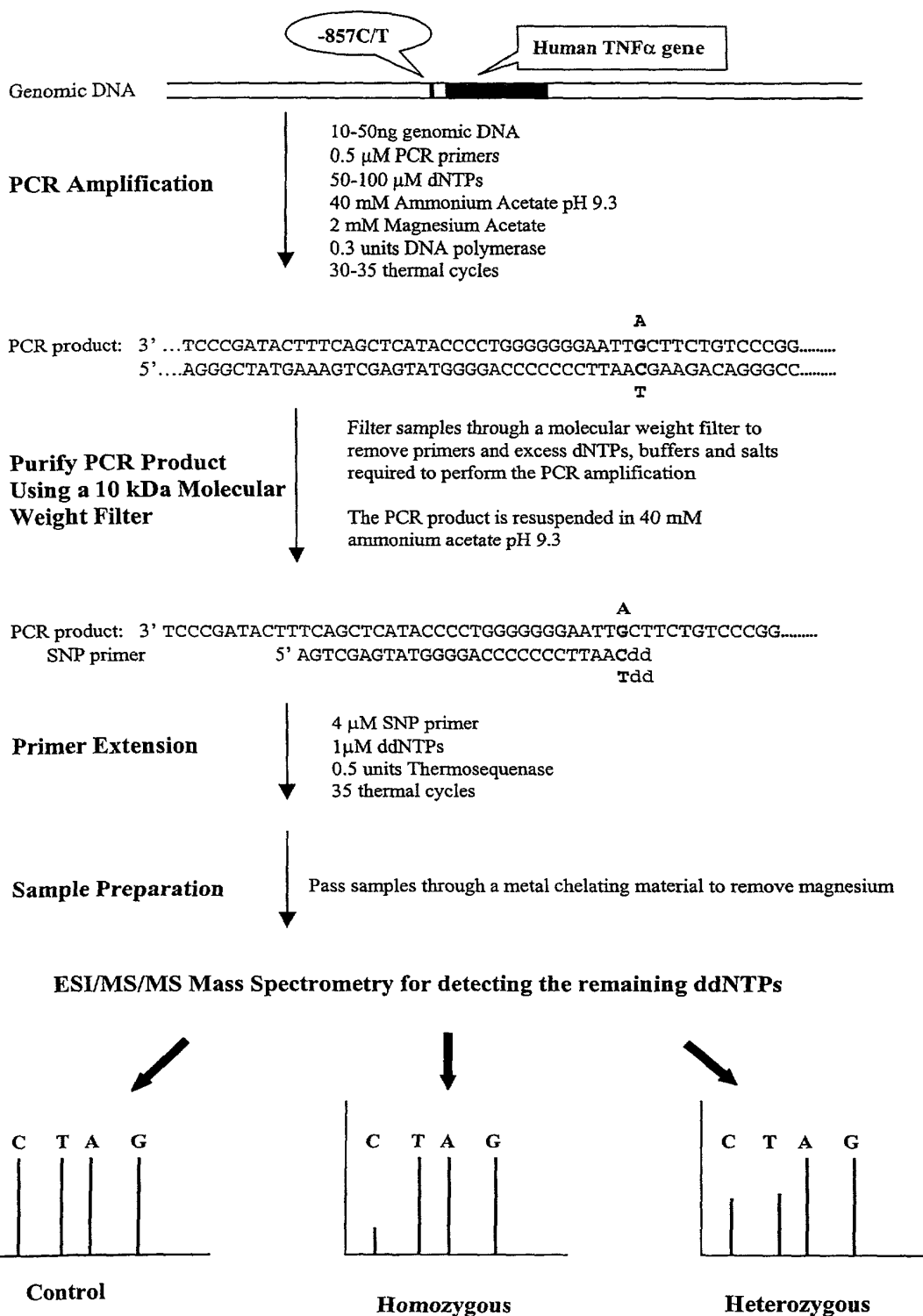


Figure 3

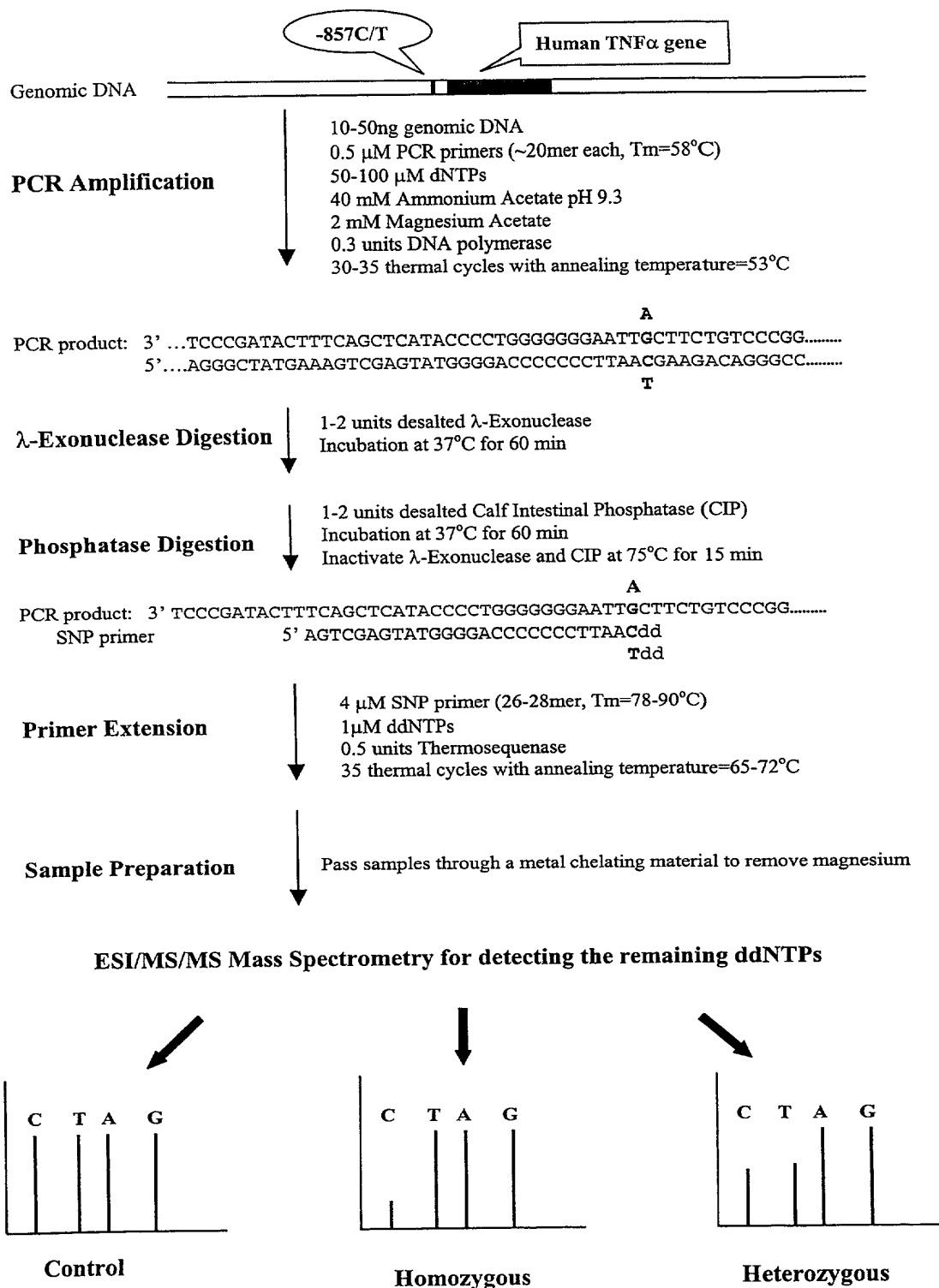


Figure 4

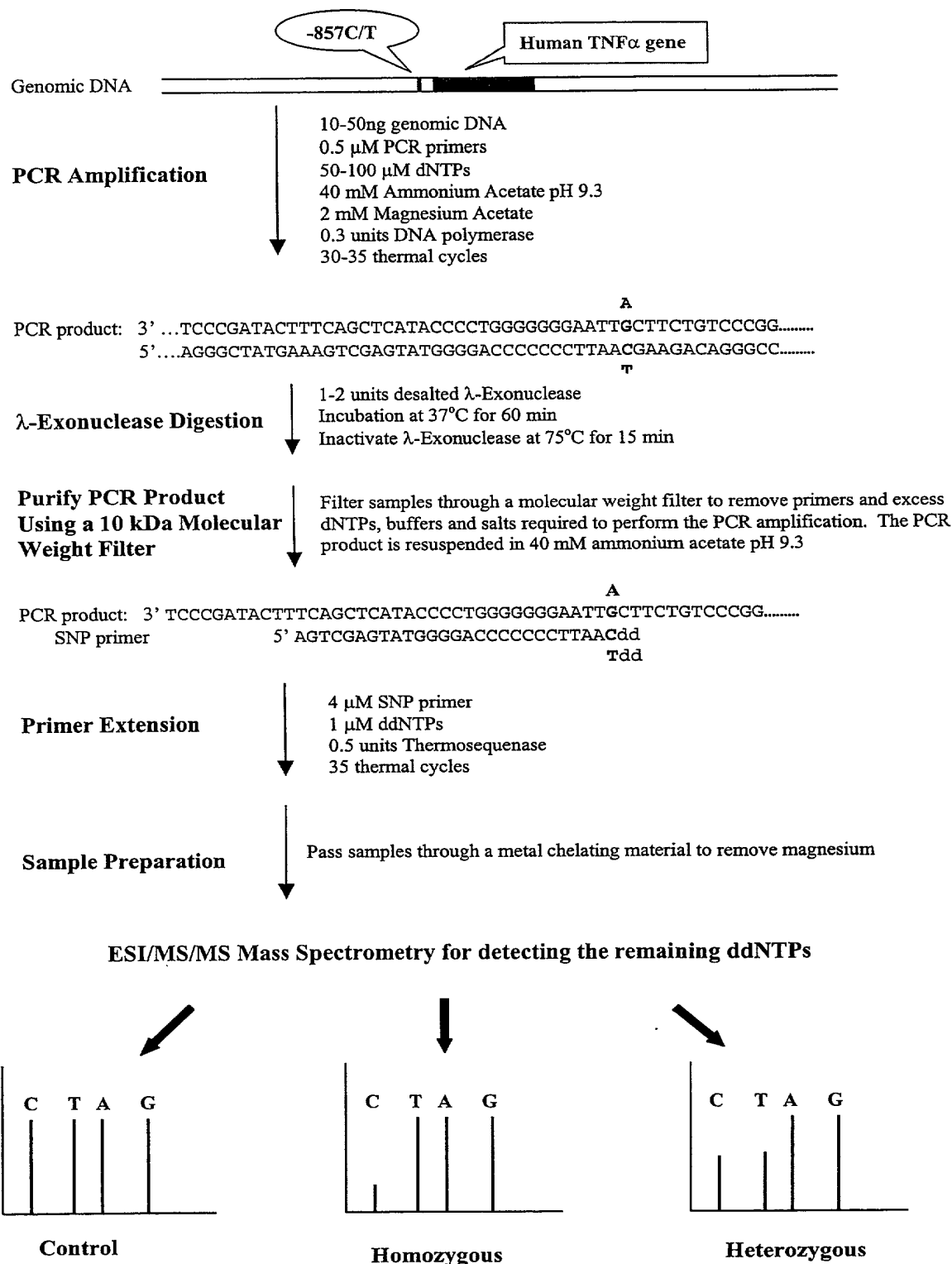


Figure 5

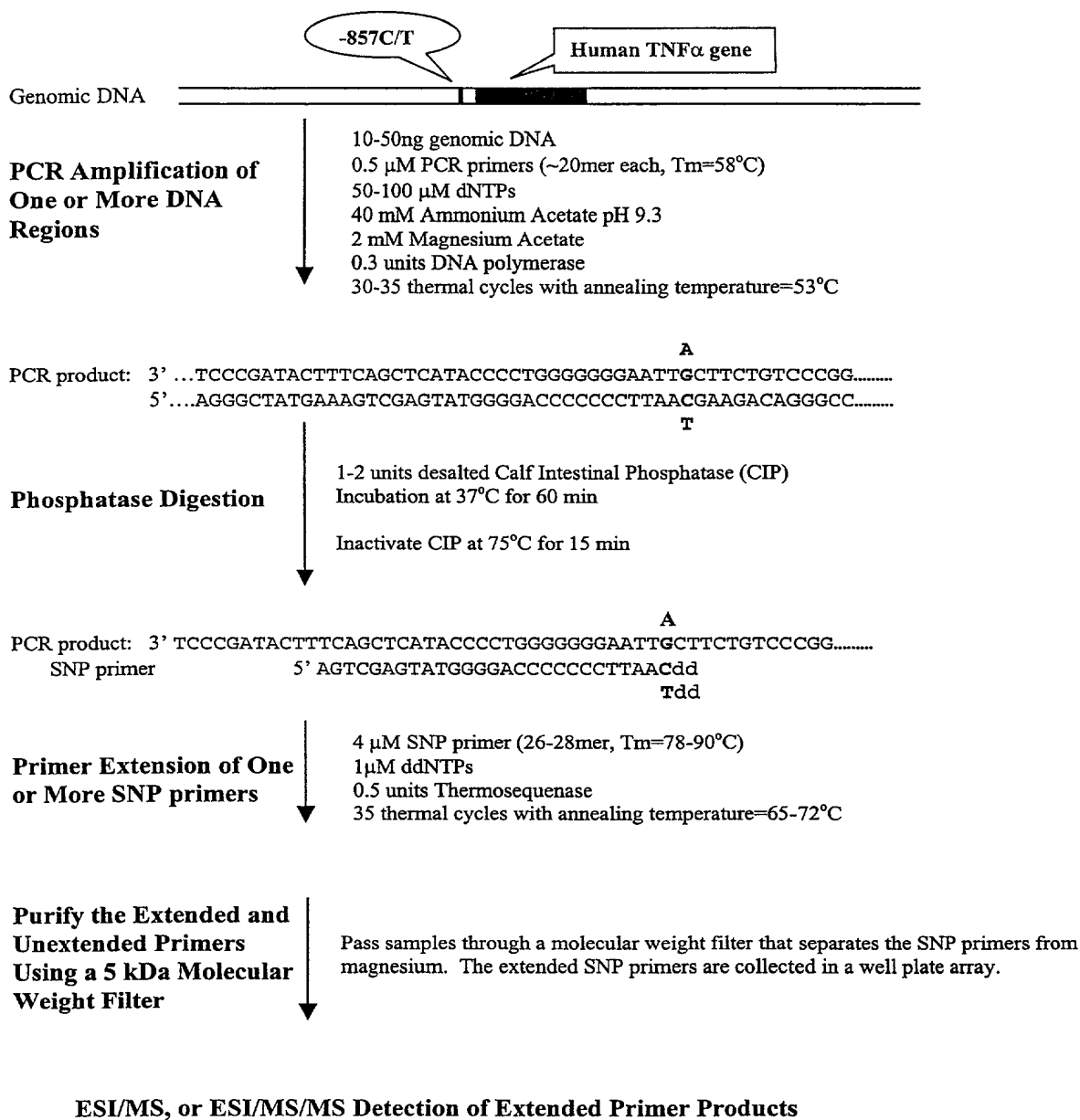


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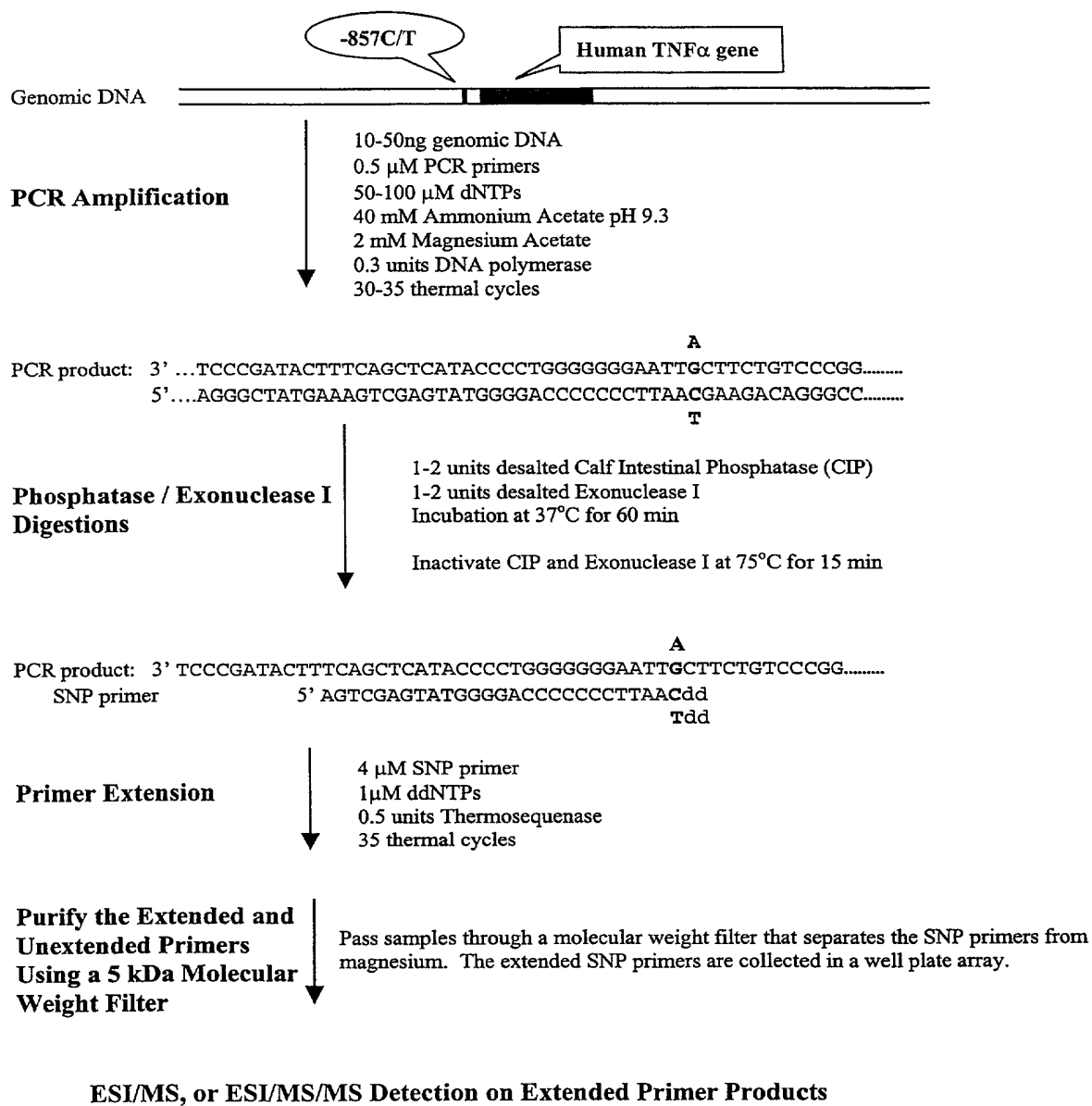


Figure 7

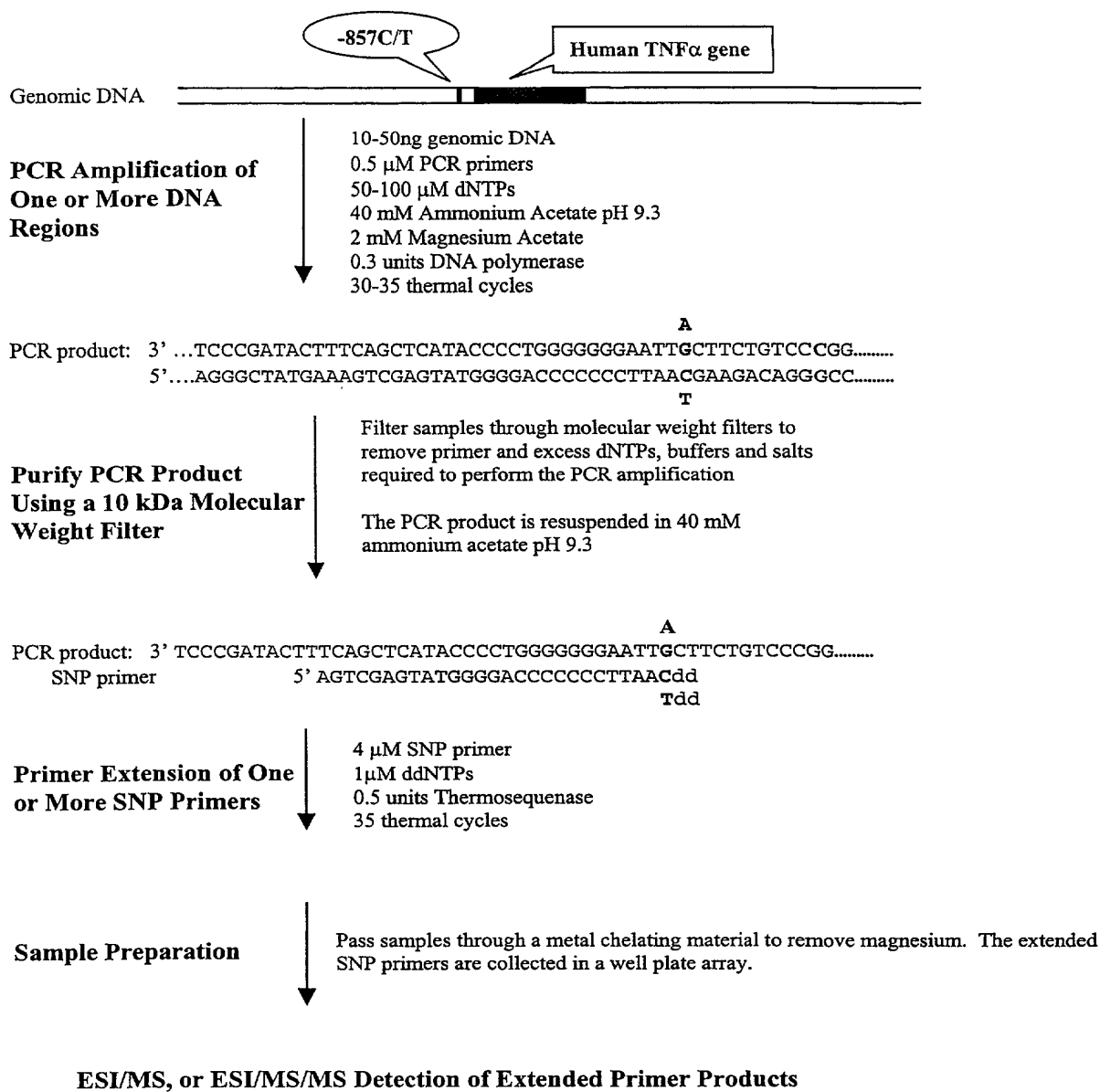


Figure 8

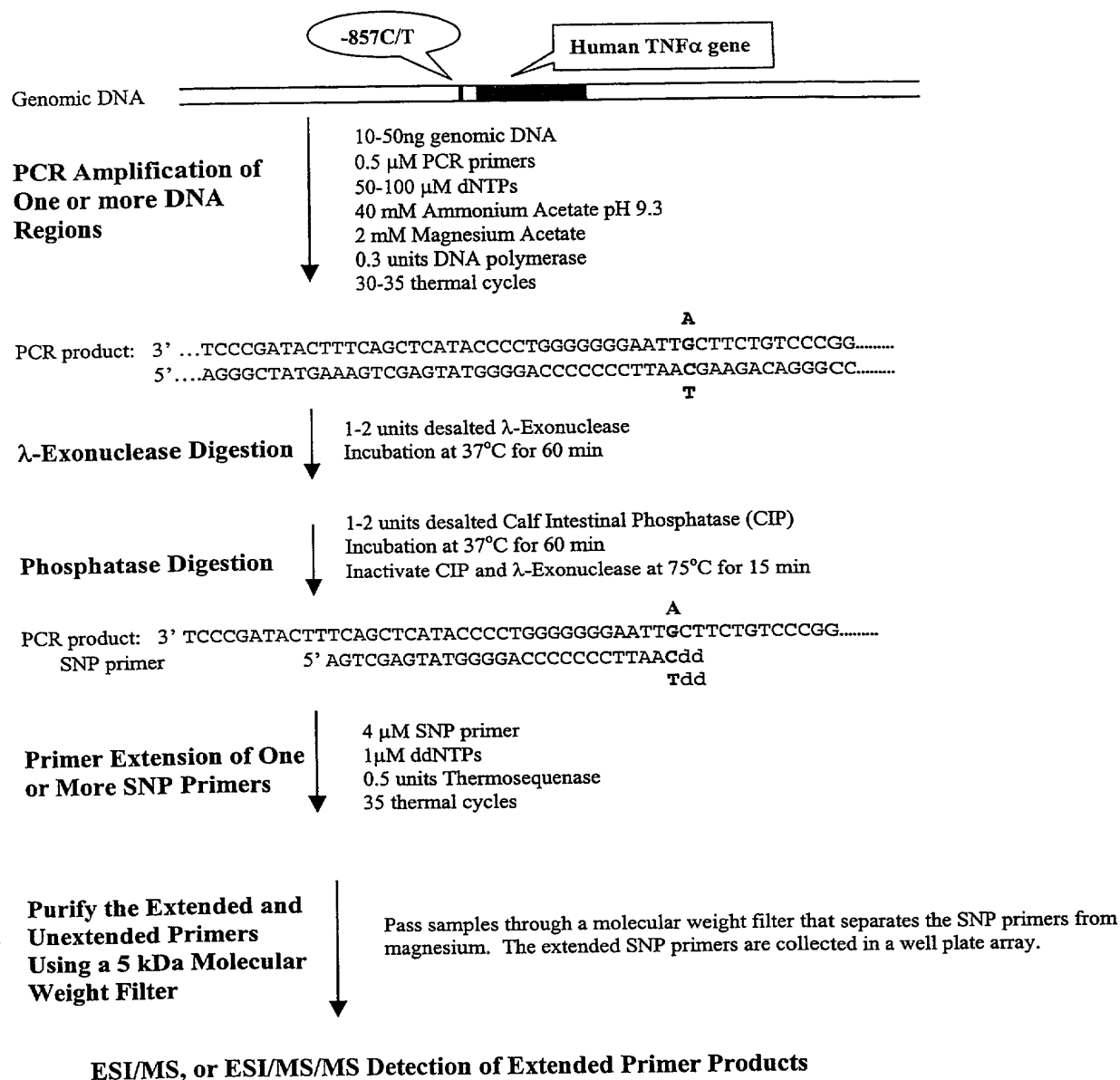


Figure 9

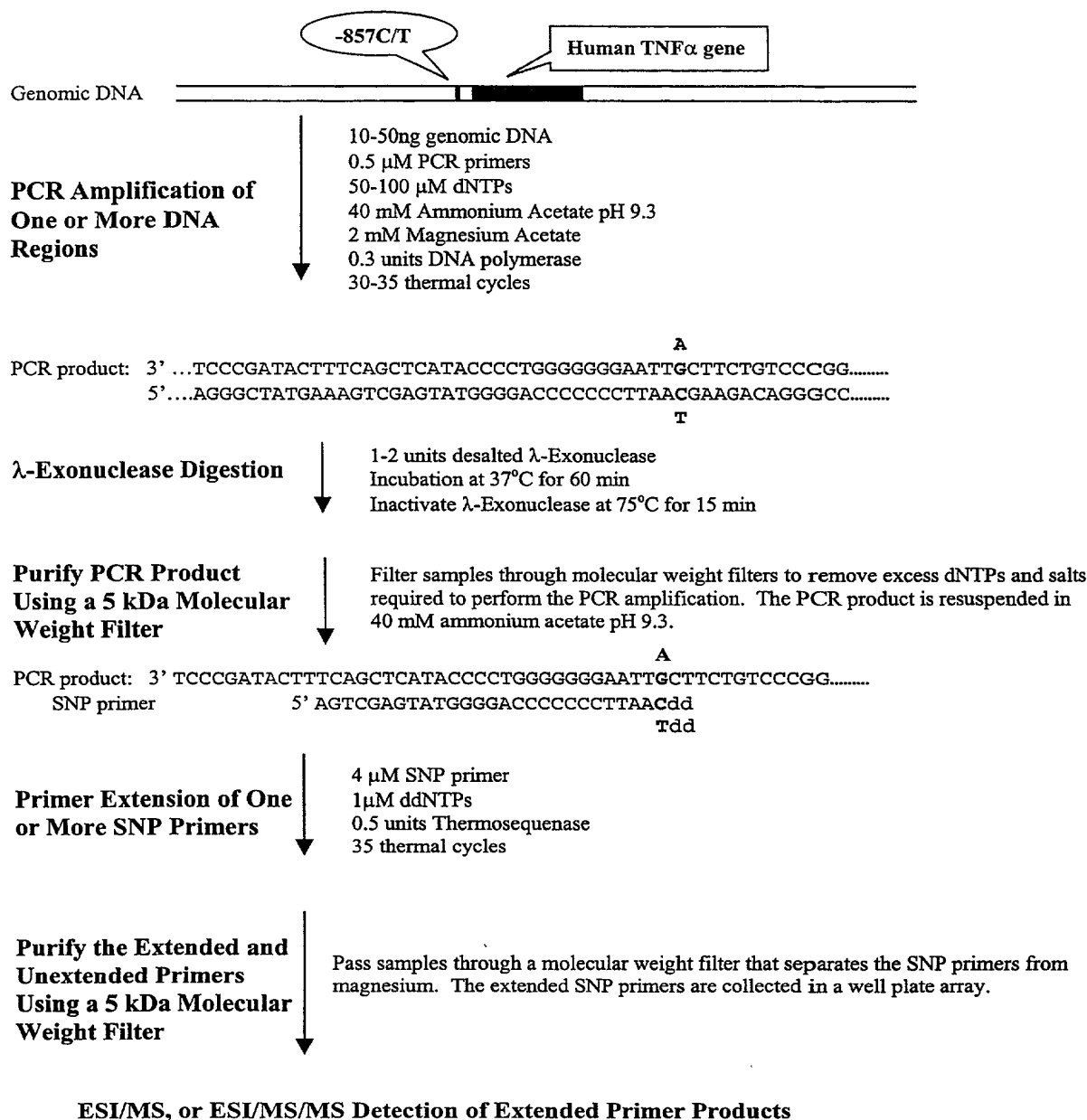
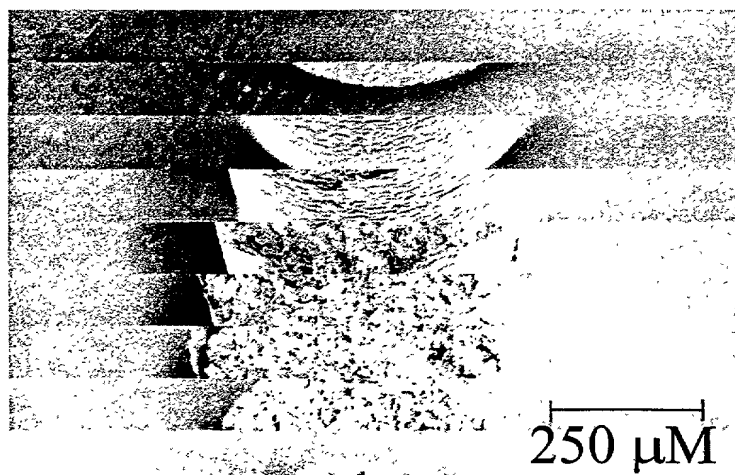


Figure 10

A



B

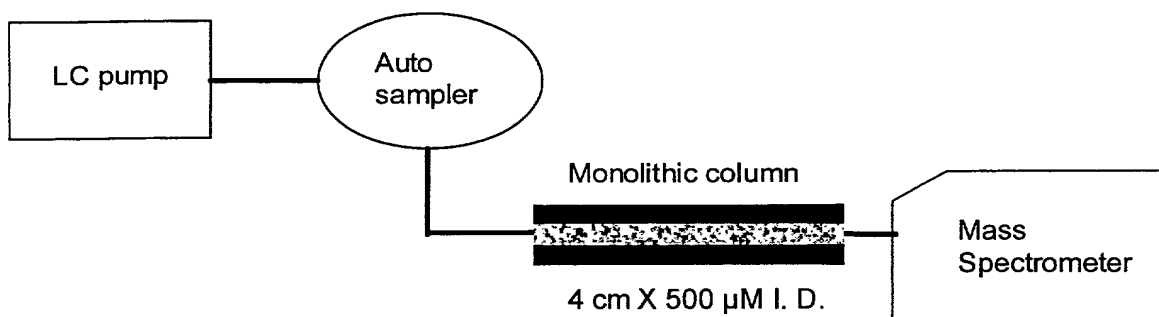


Figure 11

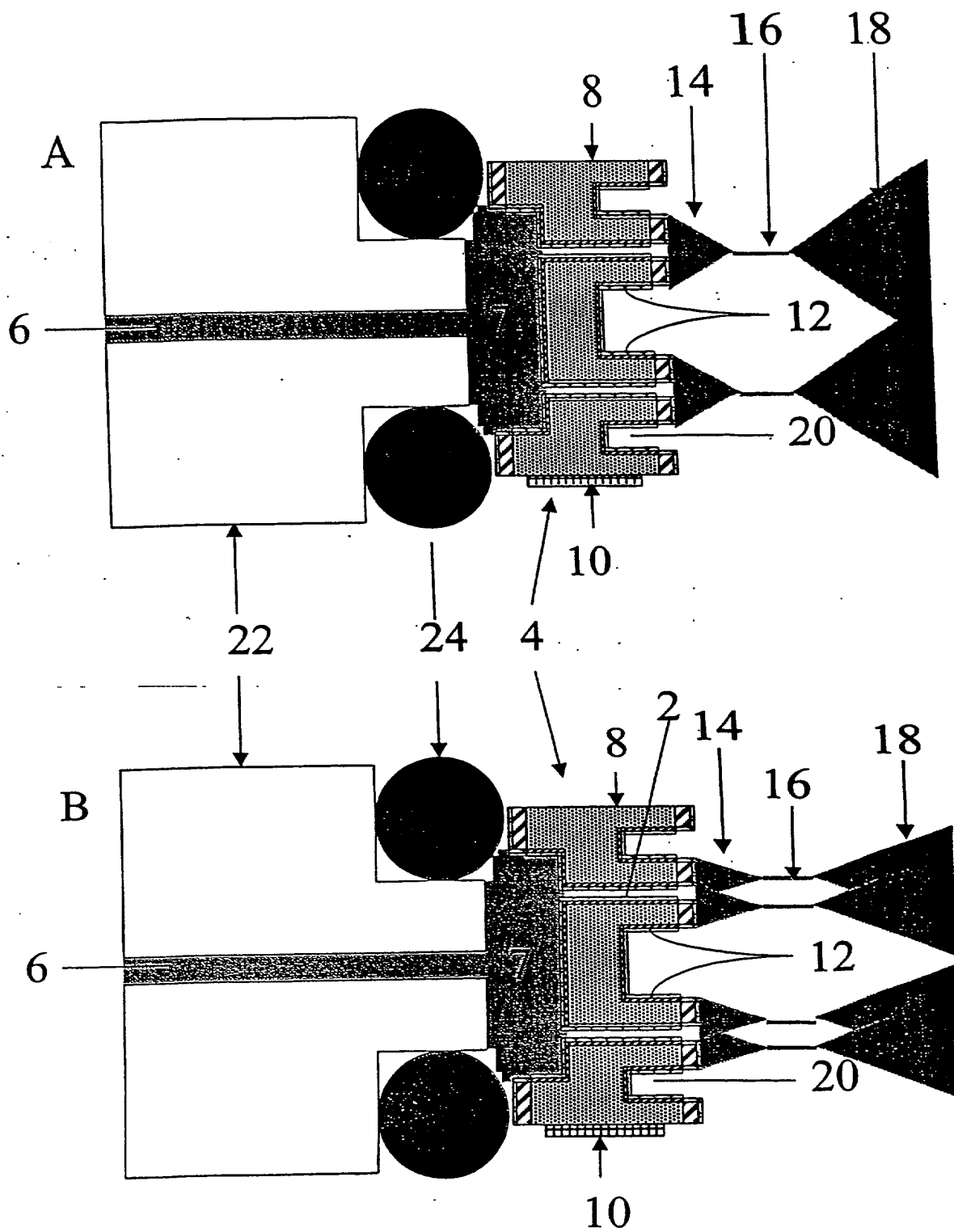


Figure 12

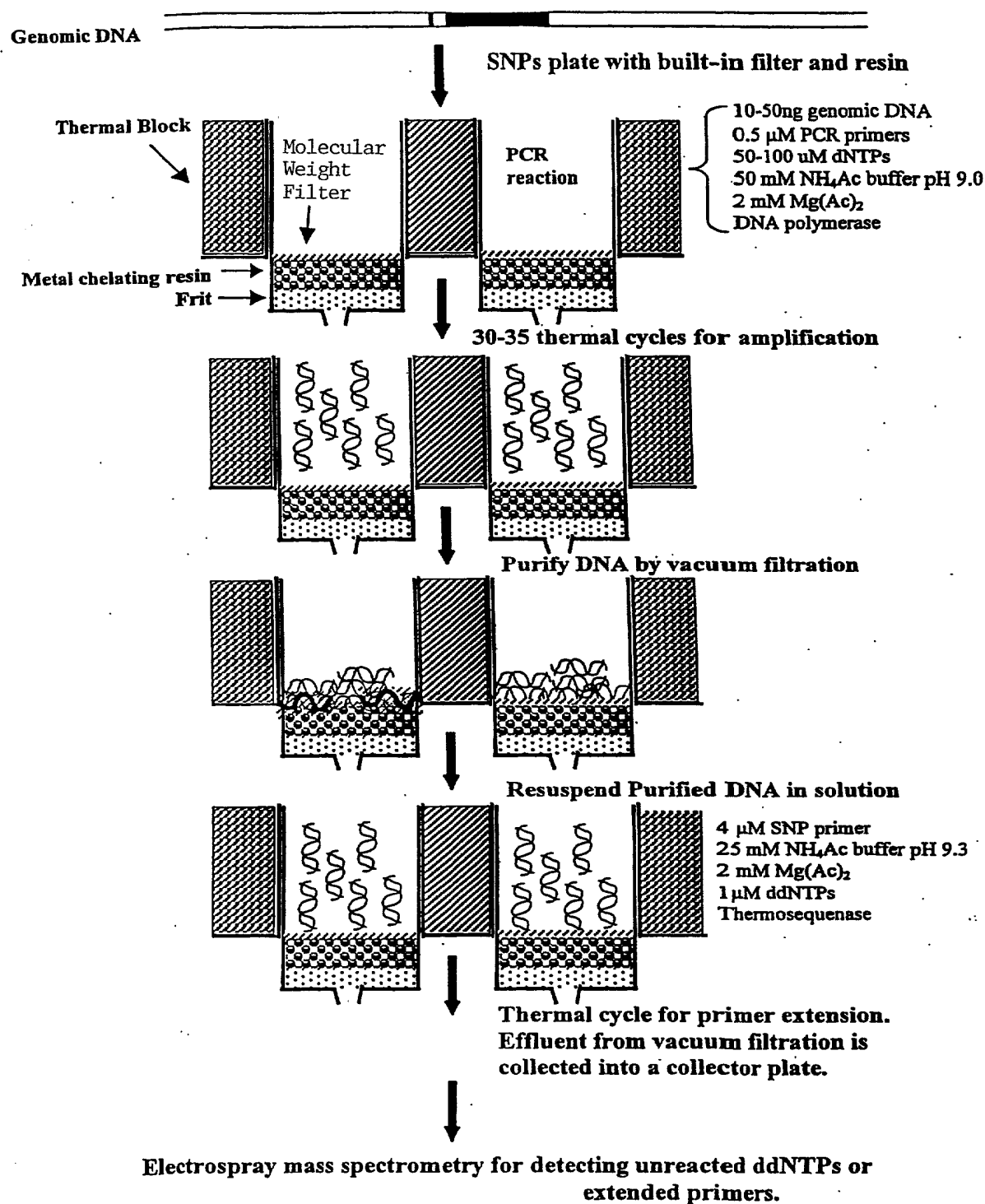


Figure 13

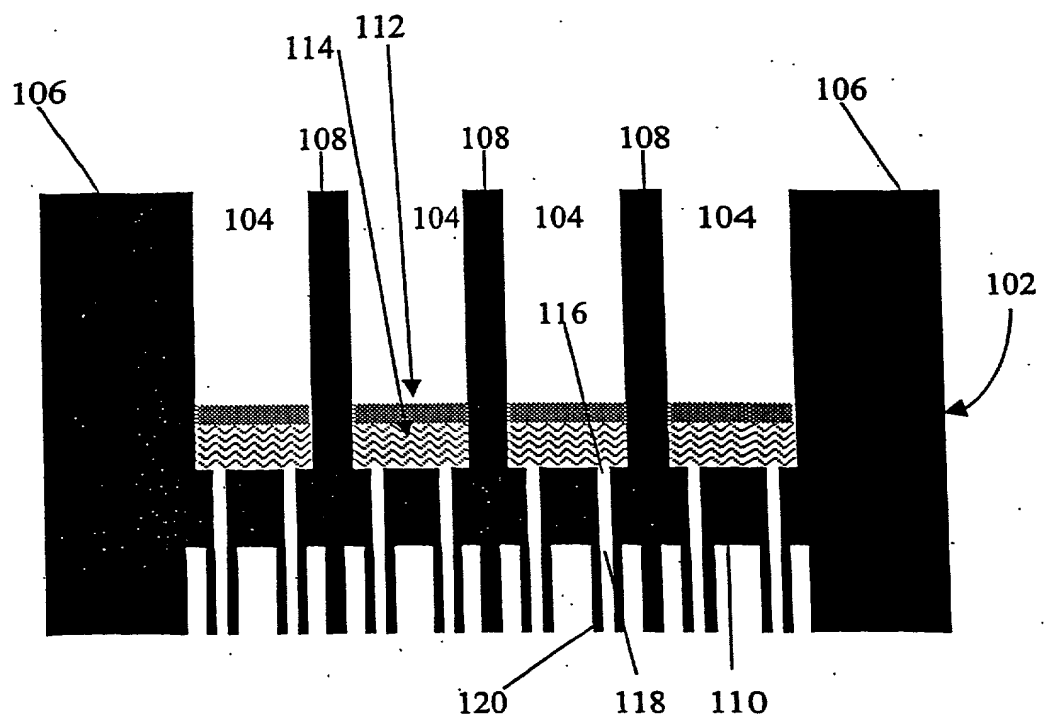


Figure 14A

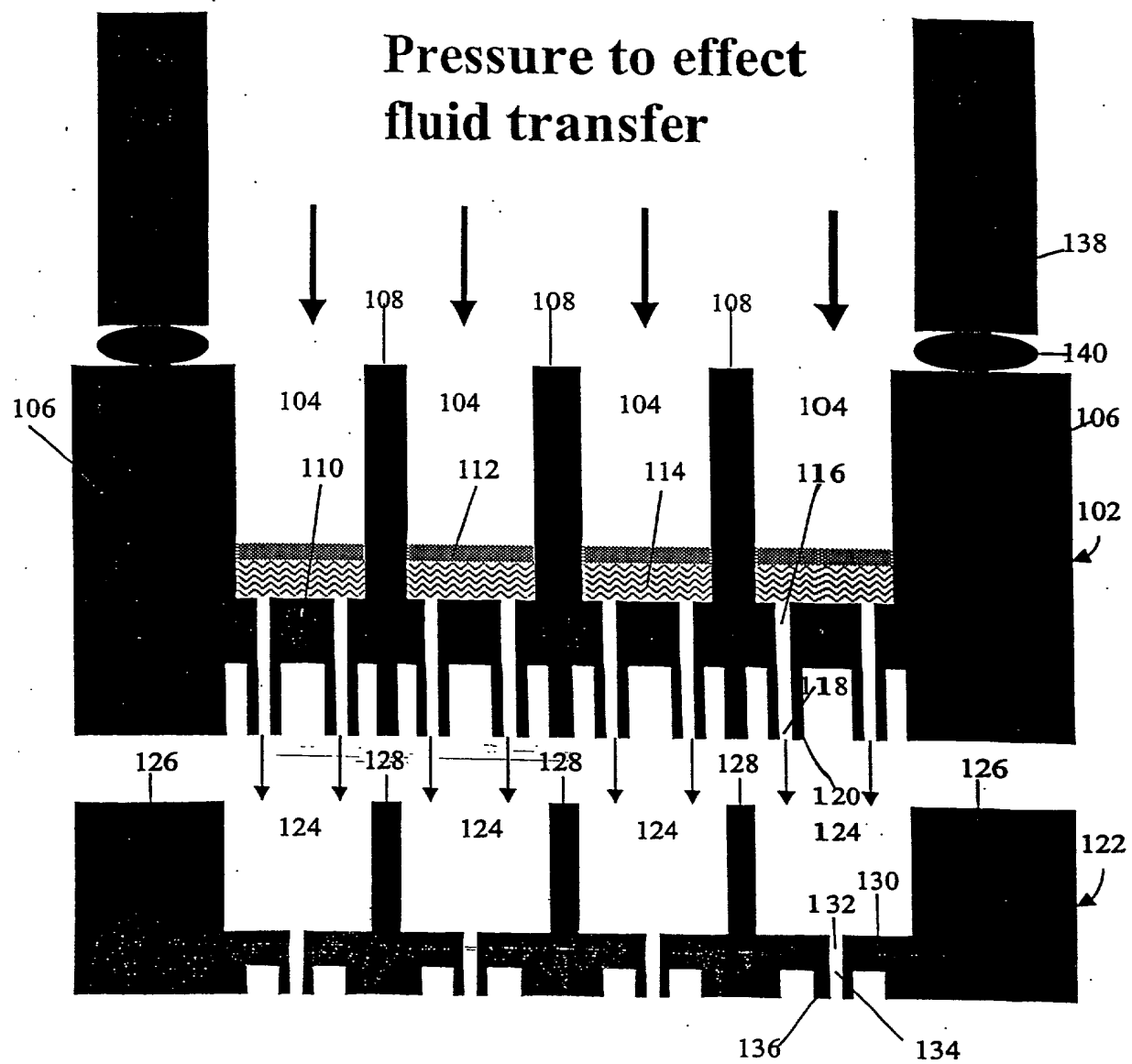


Figure 14B

Fluid
delivery
probe

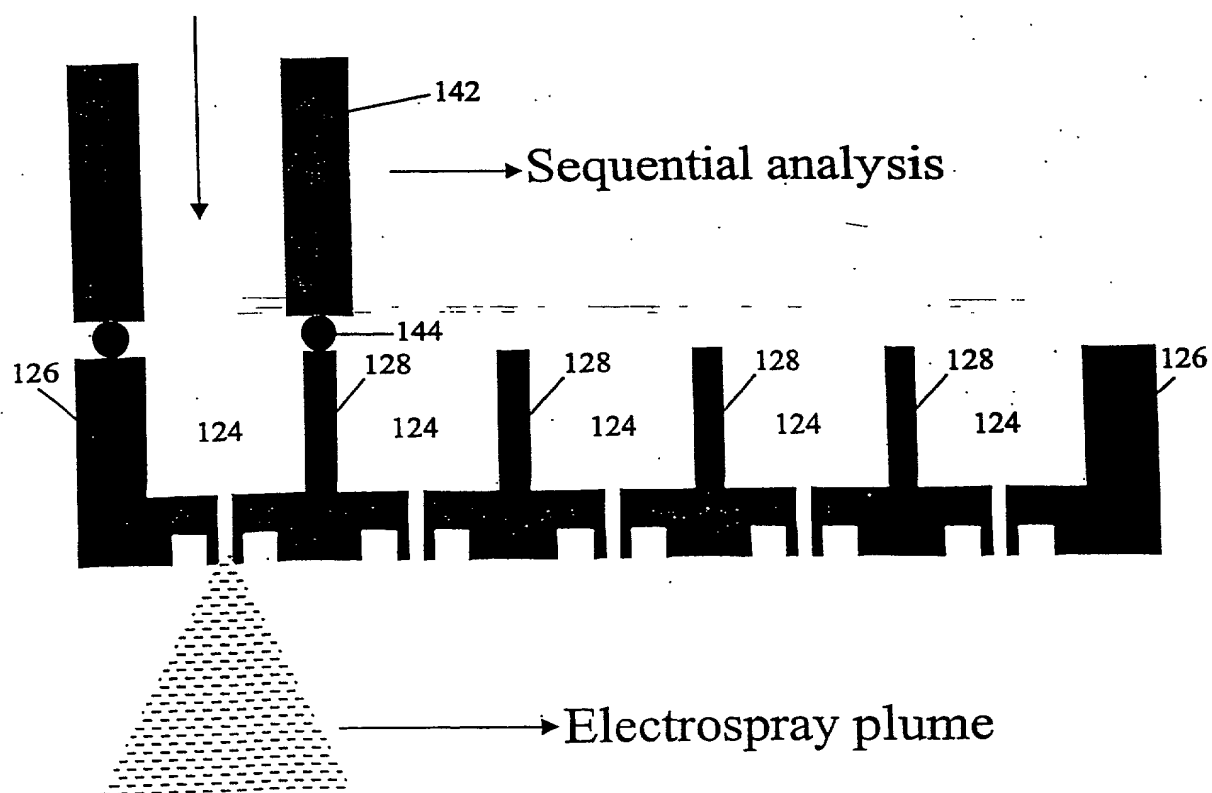


Figure 14C

279bp of Human TNF α promoter DNA (from 3041-3319) (SEQ ID. NO. 1)

857F

5'- AAGCAAAGGA GAAGCTGAGA AGATGAAGGA AAAGTCAGGG TCTGGAGGGG
 3'- TTCGTTTCCT CTTCGACTCT TCTACTTCCT TTTCAGTCCC AGACCTCCCC

CGGGGGTCAG GGAGCTCCTG GGAGATATGG CCACATGTAG CGGCTCTGAG
 GCCCCAGTC CCTCGAGGAC CCTCTATACC GGTGTACATC GCCGAGACTC

GAATGGGTTA CAGGAGACCT CTGGGGAGAT GTGACCACAG CAATGGGTTAG
 CTTACCCAAT GTCCTCTGGA GACCCCTCTA CACTGGTGTC GTTACCCATC

857SNP-forward

GAGAATGTCC AGGGCTATGA AAGTCGAGTA TGGGGACCCC CCCTTAAACGA
 CTCTTACAGG TCCCGATACT TTCAGCTCAT ACCCCTGGGG GGGAAATTGCT

AGACAGGGCC ATGTAGAGGG CCCCAGGGAG TGAAAGAGCC TCCAGGACCT
 TCTGTCCCGG TACATCTCCC GGGGTCCCTC ACTTTCTCGG AGGTCCTGGA

CCAGGTATGG AATACAGGGG ACGTTTAAAG -3' 3319
 GGTCCATACC TTATGTCCCC TGCAAATTC -5'

857R

Amplification primers:		mer	Tm (°C)
TNF α -857F	5'- AAGCAAAGGAGAAGCTGAGA-3'	20	58 (SEQ ID. NO. 2)
TNF α -857R	5'- CTTAAACGTCCCCTGTATTC-3'	20	58 (SEQ ID. NO. 3)
SNP primer:			
857SNP-F	5'-AGTCGAGTATGGGGACCCCCCTTAA-3'	26	82 (SEQ ID. NO. 4)

Figure 15

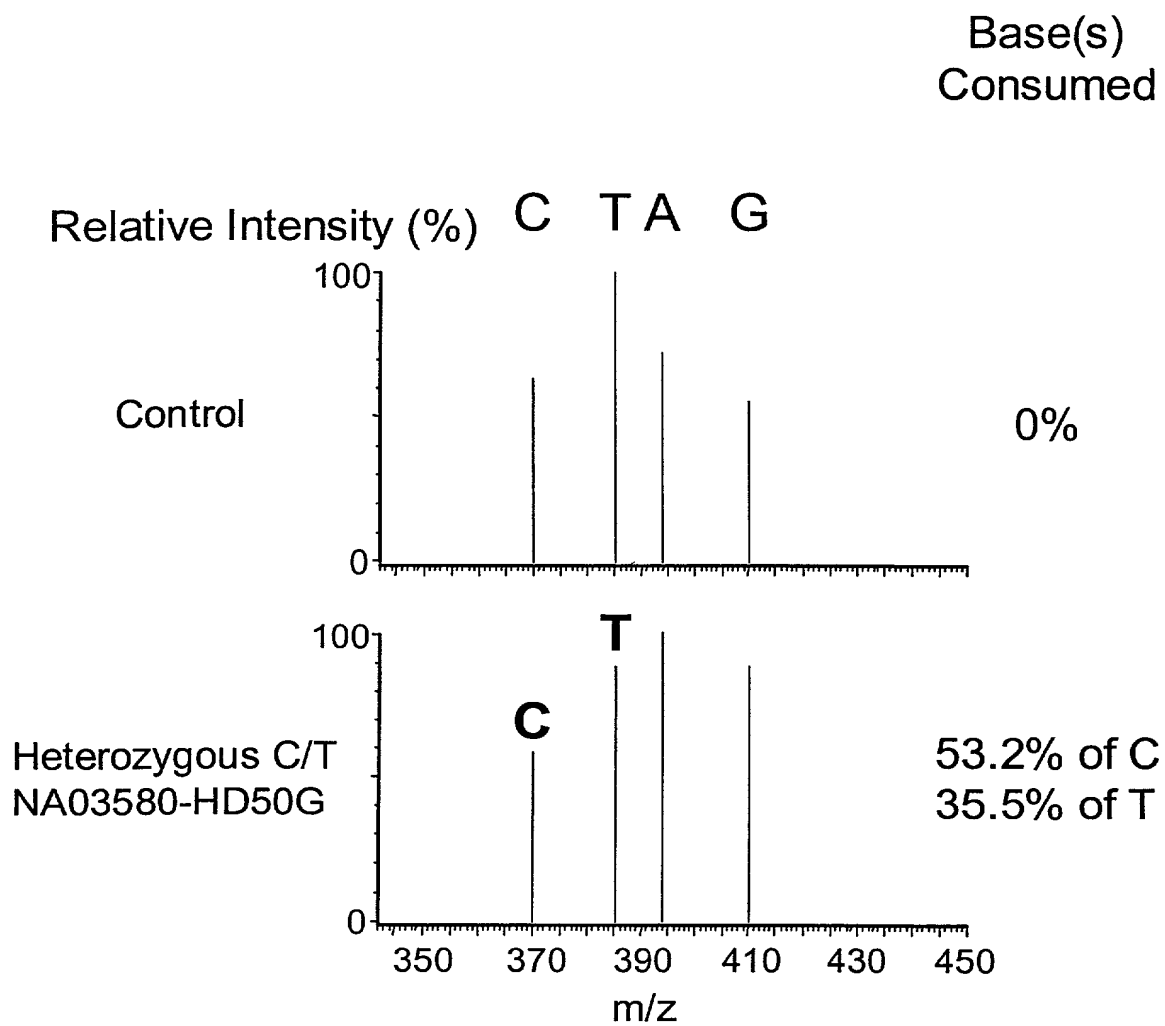


Figure 16

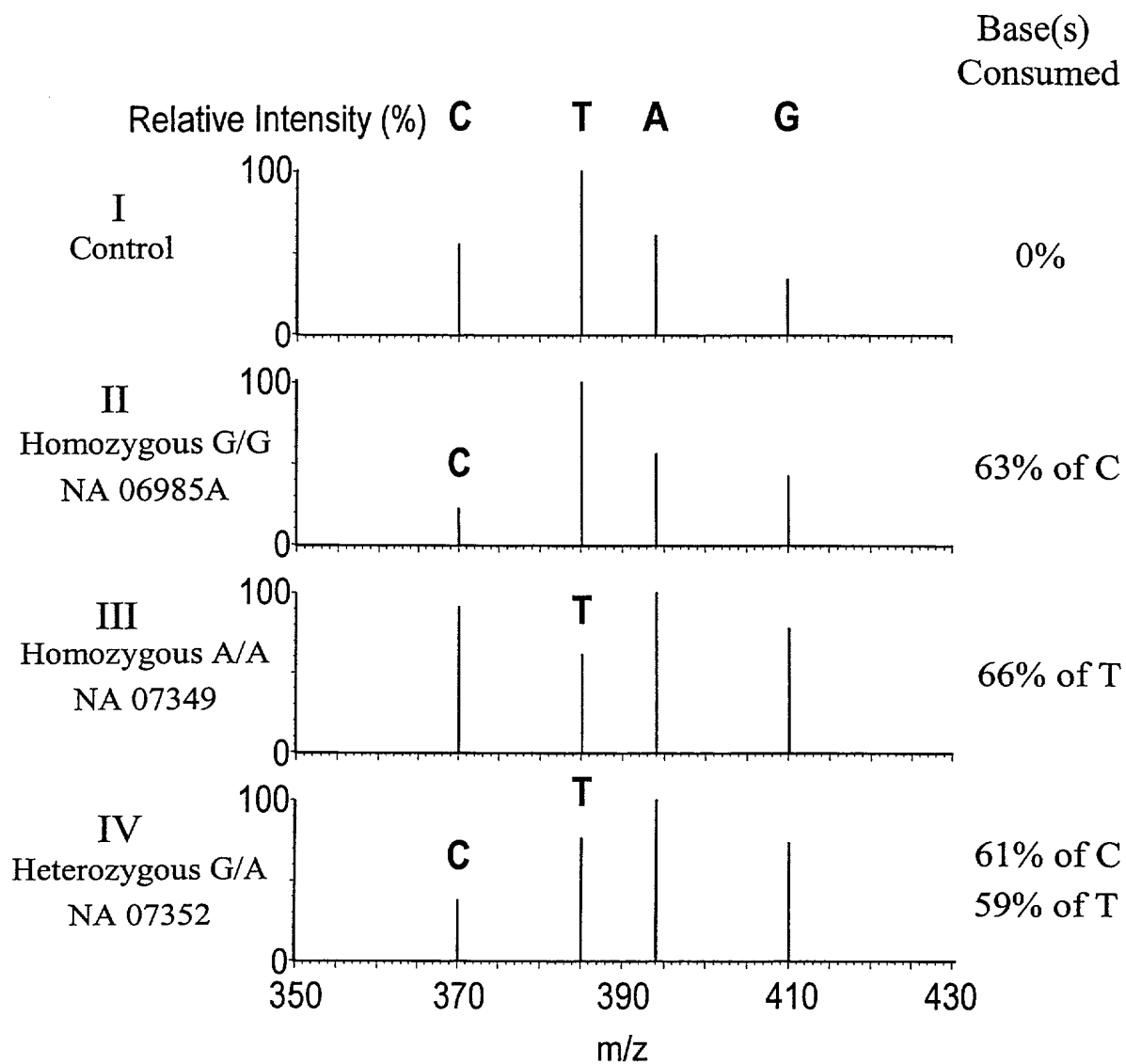


Figure 17

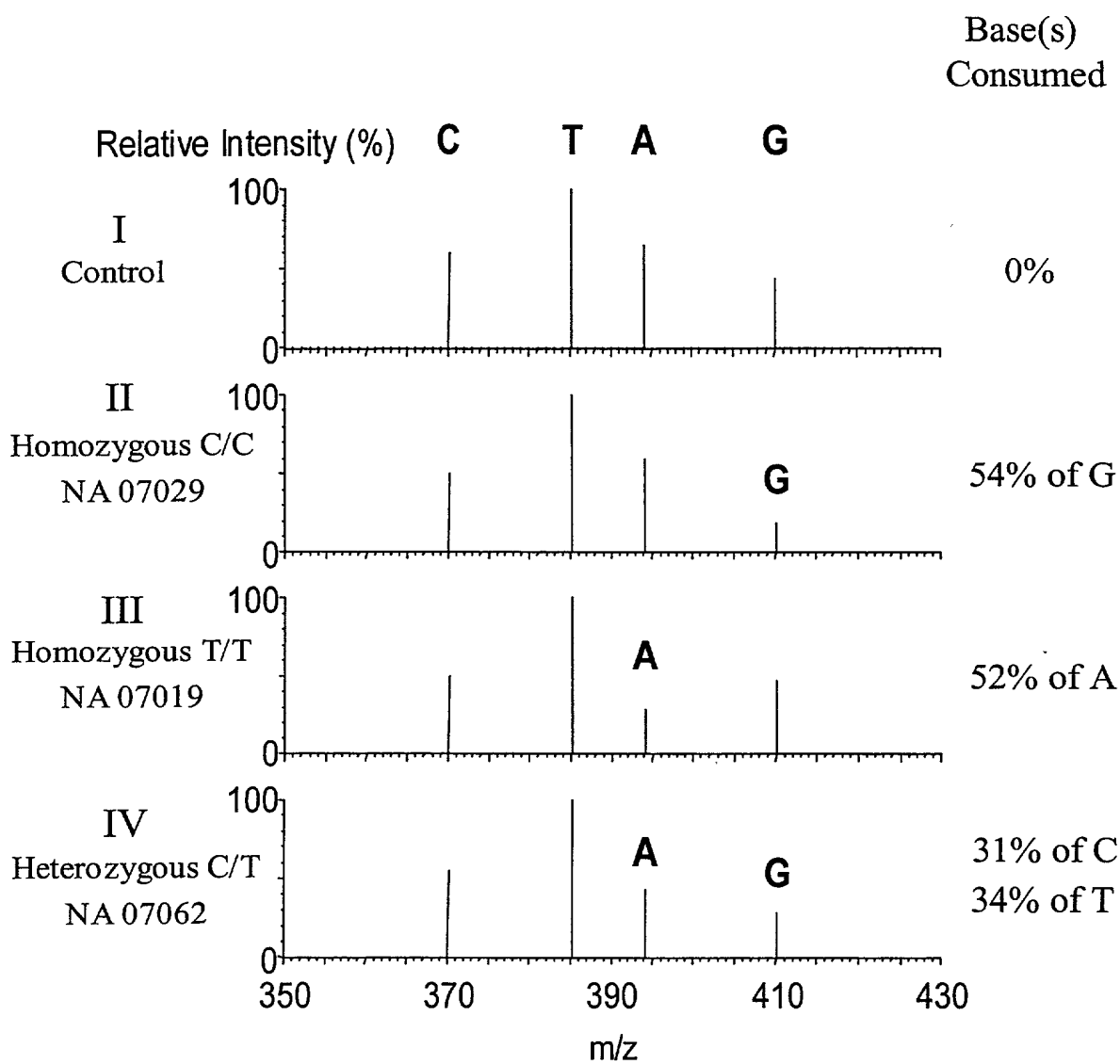
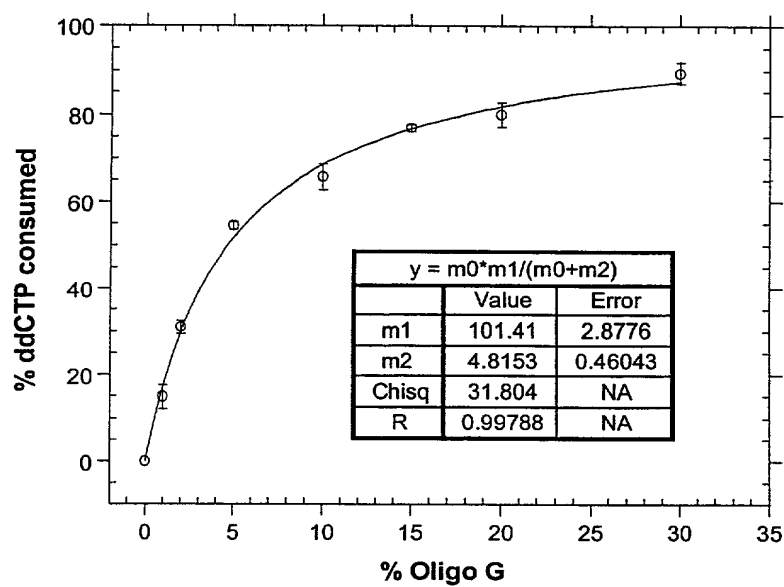


Figure 18

(A) Quantitative Pooling Study for Model System



(B) Quantitative Pooling Study for Model System

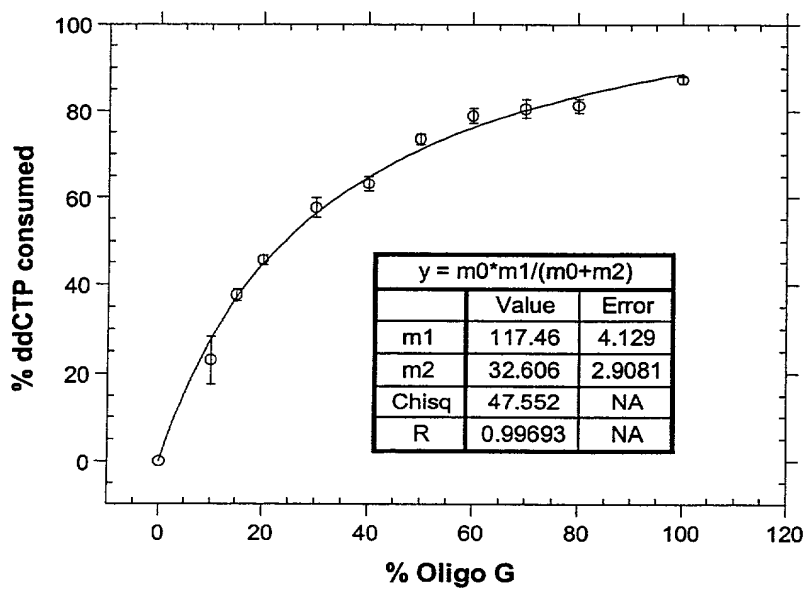
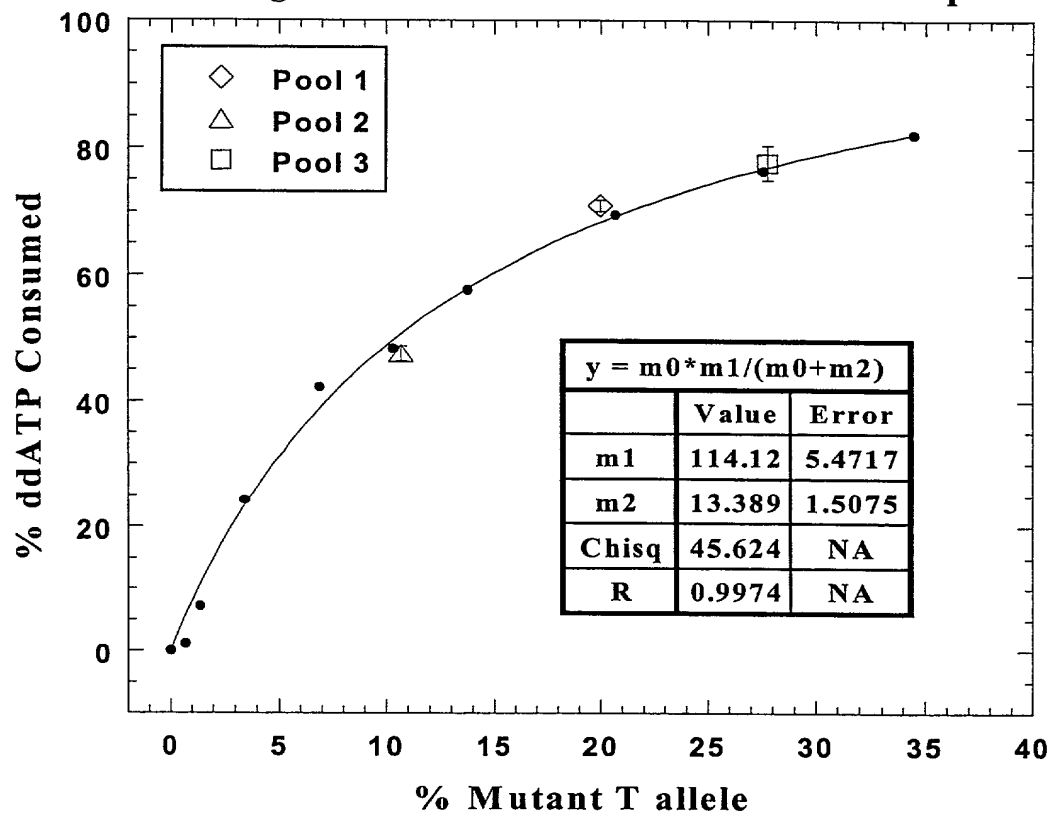


Figure 19

Quantitative Pooling Study Using Purified Single-Stranded DNA for Region C SNP of Human Genomic Samples



Pooling Sample	Predicted T Allele (%)	Experimental T Allele (%)	Error (%)
Pool 1	20.0	22.0	+10.0
Pool 2	10.7	9.58	-10.5
Pool 3	27.8	28.6	+2.80

Figure 20